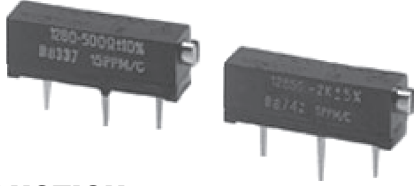


Bulk Metal® Foil Technology Ultra High Precision Trimming Potentiometers $\frac{3}{4}$ " Rectilinear, ± 5 ppm/°C and ± 15 ppm/°C TCR with a Smooth and Unidirectional Output



INTRODUCTION

Vishay Foil precision trimmers have the Bulk Metal® Foil resistive element which possesses a unique inherent temperature and load life stability. Plus, their advanced virtually backlash-free adjustment mechanism makes them easy to set quickly and accurately and keeps the setting exactly on target.



FEATURES

- Temperature coefficient of resistance (TCR): (- 55 °C to + 125 °C ref. at + 25 °C)
 - ± 15 ppm/°C (model 1280G);
 - ± 5 ppm/°C (model 1285G)⁽³⁾;
 - through the wiper ± 50 ppm/°C
- A smooth and unidirectional resistance with leadscrew adjustment
- Load life stability: 0.5 % maximum ΔR under full rated power at + 25 °C for 2000 h
- Electrostatic discharge (ESD) up to 25 000 V
- Settability: 0.05 % typical; 0.1 % maximum
- Setting stability: 0.1 % typical; 0.5 % maximum, ΔSS
- Power rating: 0.75 W at + 25 °C
- Resistance range: 10 Ω to 20 k Ω
- Resistance tolerance: ± 10 %, ± 5 %
- Backlash: < 0.05 %
- Tap test: 0.05 % typical; 0.1 % maximum
- "O"-ring prevents ingress of fluids during any board cleaning operation
- Terminal finish: gold plated (tin/lead finish available on request)



RoHS
COMPLIANT

TABLE 1 - 1280G AND 1285G SERIES ELECTRICAL SPECIFICATIONS

| | |
|--------------------------------|--|
| Resistance Tolerance | Model 1280G 10 % ⁽¹⁾ , Model 1285G 5 % |
| Resistance Range | 10 Ω to 20 k Ω |
| TCR Model 1280G | ± 15 ppm/°C (- 55 °C to + 125 °C, ref. + 25 °C) |
| TCR Model 1285G ⁽³⁾ | ± 5 ppm/°C (- 55 °C to + 125 °C, ref. + 25 °C) |
| Power | 0.75 W at + 25 °C derated linearly to 0 W at + 125 °C (see Fig. 2) |
| Settability | 0.05 % typical; 0.1 % maximum |
| Setting Stability | 0.1 % typical; 0.5 % maximum |
| Roll-on, Roll-off | 0.25 % typical; 1.0 % maximum |
| Load Life Stability | 0.5 % ΔR after 2000 h under full rated power at + 25 °C |
| End Resistance | 2 Ω maximum |
| C.R.V. (noise) ⁽²⁾ | 3 Ω typical; 10 Ω maximum |
| Frequency Characteristics | 10 ns rise time at 1 k Ω to 100 MHz |

Notes

- (1) 5 % available on special order
- (2) The 1280G can be screened for low noise, if required
- (3) For model 1285G 10 Ω and 20 Ω TCR is ± 10 ppm/°C
- (4) Panel mount available on special order

TABLE 2 - STANDARD VALUE

10 Ω , 20 Ω , 50 Ω , 100 Ω , 200 Ω , 500 Ω , 1 k Ω , 2 k Ω , 5 k Ω , 10 k Ω , 20 k Ω

TABLE 3 - 1280G AND 1285G SERIES MECHANICAL SPECIFICATIONS

| | |
|-------------------------|-----------------------------|
| Adjustment Turns | 26 ± 2 turns |
| Backlash | < 0.05 % |
| Stops | clutch, wiper idles |
| Sealed | + 85 °C water immersion |
| Torque | 5 oz. in. maximum |
| Weight | 1.5 grams maximum |
| Construction | |
| Case Material | Valox® |
| Lead Screw | Brass |
| Wiper | Precious metal brush |
| Rider Block | Nylon |
| Element | Bulk Metal® Foil |
| Lead Material | Gold plated phosphor bronze |

FIGURE 1 - 1280G/1285G SCHEMATIC AND DIMENSIONS in Inches (Millimeters)

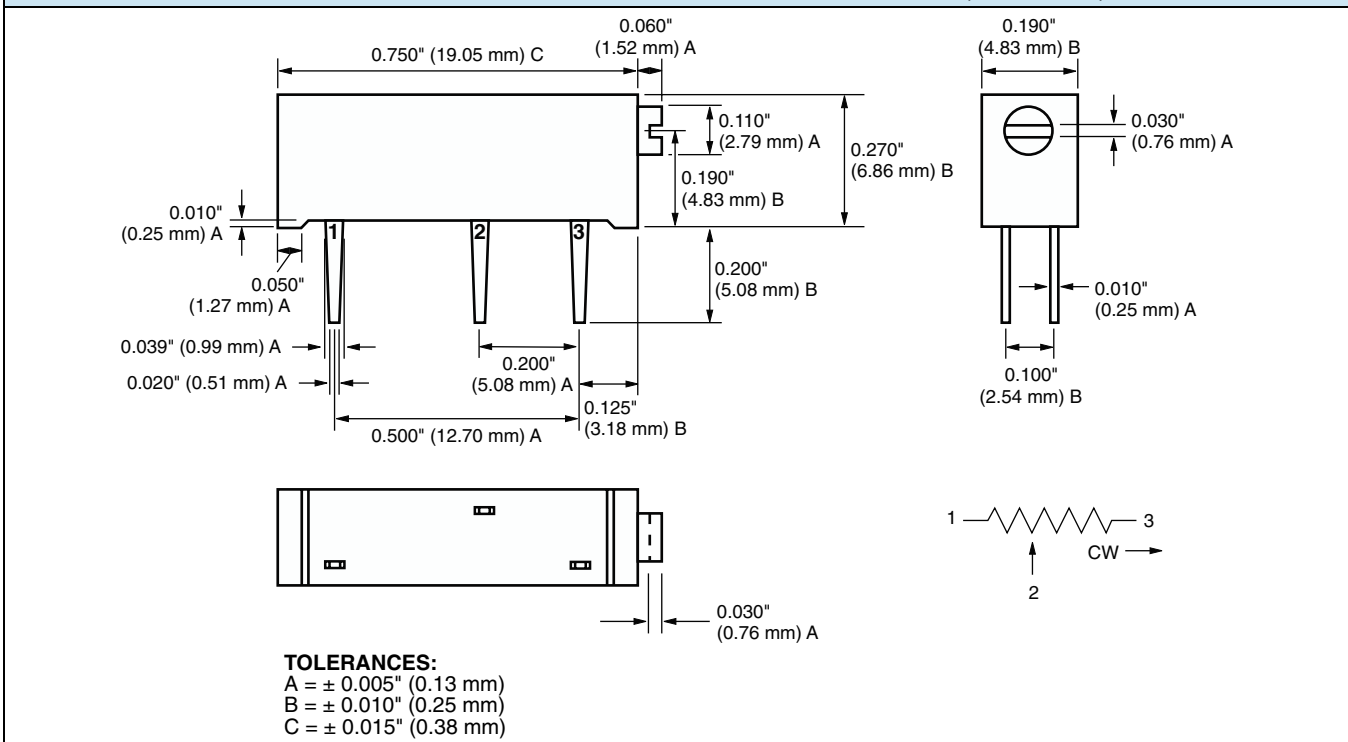


FIGURE 2 - POWER DERATING CURVE

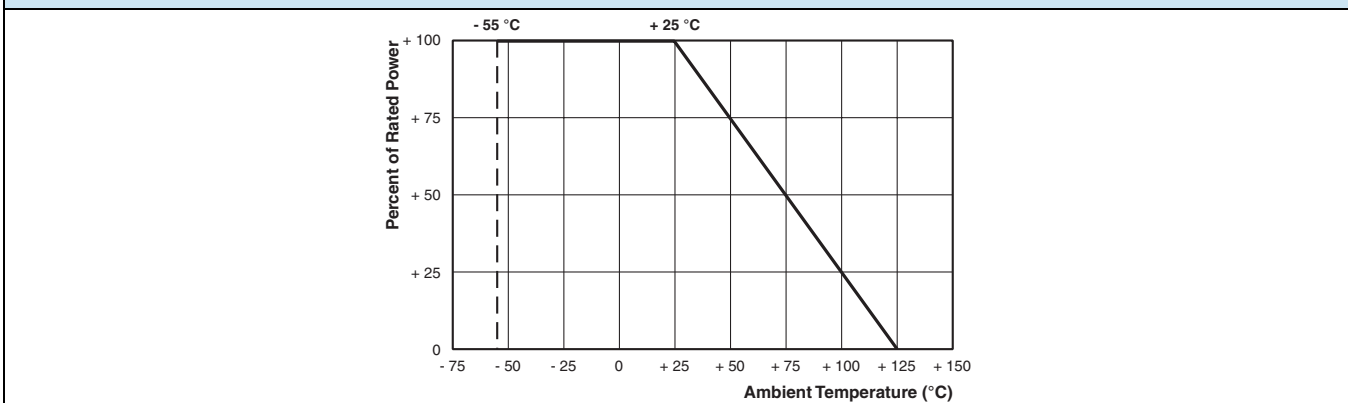
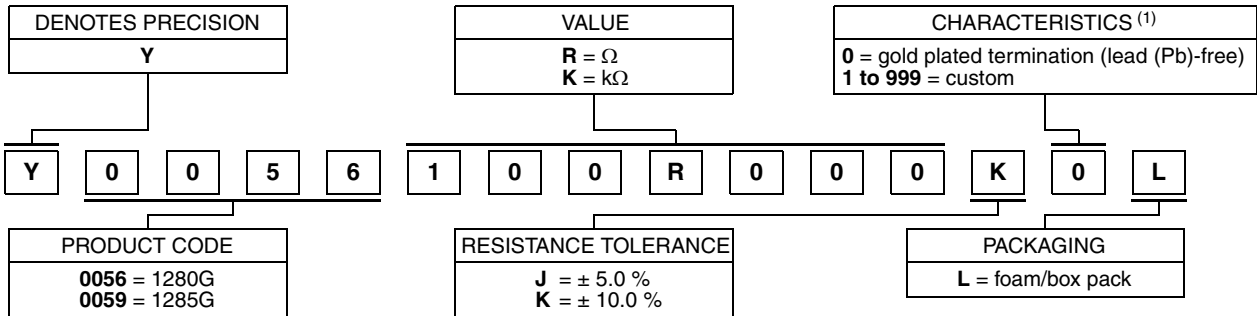


TABLE 4 - GLOBAL PART NUMBER INFORMATION

NEW GLOBAL PART NUMBER: Y0056100R000K0L (preferred part number format)



FOR EXAMPLE: ABOVE GLOBAL ORDER Y0056 100R000 K 0 L:

TYPE: 1280G

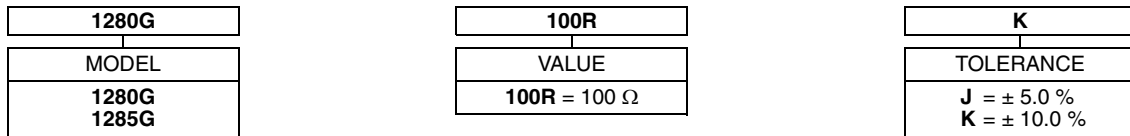
VALUES: 100.0 Ω

ABSOLUTE TOLERANCE: ± 10 %

TERMINATION: gold plated (lead (Pb)-free)

PACKAGING: foam/box pack

HISTORICAL PART NUMBER: 1280G 100R K (will continue to be used)



Note

(1) For non-standard requests or additional values, please contact application engineering.

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